

NETTLETON, SIMS AND CONKLIN TO MANAGE '30 SHOW

Three Seniors Selected to Take
Charge of Next Year's
Stage Production

JUNIOR BOARD OF 6 MEN

Elections Announced at Banquet
Held in Engineers' Club
Last Night

Albert R. Sims '30 was elected General Manager of Tech Show 1930 at a meeting of the management and Advisory Council held yesterday. W. Sweezy Conklin '30 was elected Publicity Manager, and Frank Nettleton '30 Business Manager.

Albert R. Sims '30, the new General Manager, is a native of Slatersville, R. I., graduated from Mount Hermon School and is enrolled in Course XV at the Institute. He is a member of Masque, the honorary society of Tech Show, and of the Psi Delta fraternity. He was Publicity Manager of Tech Show 1929.

W. Sweezy Conklin, '30, the Publicity Manager for 1930 comes from Riverhead, N. Y. He is a graduate of Chauncy Hall and is taking Course II at Technology. He was Stage Manager of Tech Show 1928 and at present is secretary of Masque. He is a member of Phi Kappa Sigma fraternity.

Frank P. Nettleton '30, the new Business Manager, comes from Rockville, Conn., and he enrolled in Course VX at the Institute after graduating from Worcester Academy. He was Program Manager for Tech Show 1929 and is a member of Masque.

Six men will comprise the Junior Board. These are Charles B. Pear, Jr., '31, Stage Manager; Paul H. Kimmerlin '30, Company Manager; Willis Fleisher, Jr., '31, Music Manager; Fred O'Sullivan '31, Publicity Manager; Frederick G. Suhr '30, Program Manager; and Hamilton L. Davis '31, Treasurer.

These elections were announced at a banquet held at the Engineer's Club last night. At this banquet, 21 men were initiated into Masque under the direction of Alexander Macomber '07, General Manager of Tech Show 1907. At the same time, a general report was made by the various managers as to the progress made during the past year.

Announcement of Promotion Made

Major Robert C. Eddy Has Been
Appointed Recently
as Lt. Colonel

Major Robert C. Eddy, Assistant Professor of Military Science and Tactics at the Institute has been promoted to Lieutenant Colonel, Coast Artillery Corps. The oath was administered by Colonel Harold E. Cloke, head of the department. Colonel Cloke will be in command of Camp Devens this summer. He has been active at that camp for the last few years.

Carl F. Theisen '26, Ernest K. Warburton '26, and Frederick E. Glantzberg '27, who have been training at Kelley Field, have been appointed second lieutenants in the Air Service. The two graduates of the Class of 1926 will go to Selfridge Field, while Glantzberg goes to Mitchell Field for active duty.

Spring Schedule to be Shortened Two Days

That classes for all first, second, and third year students would close two days earlier than scheduled this spring, was announced yesterday by Registrar Joseph P. MacKinnon. This change will, of course, bring the last exercise of the term upon Thursday, May 23, rather than on Saturday, May 25, as originally scheduled, and will give a welcome three-day vacation just prior to the final examination period.

Senior Committee Head Dodges Clutches of Law

"A miss is as good as a mile," so saith William Baumrucker Jr., chairman of the Senior Endowment Committee, after his escape from the clutches of the law on Wednesday. Baumrucker as agent for the Senior Class had been subpoenaed to appear before the Massachusetts State Insurance Commission for an alleged violation of the rebate law. This charge was made by the Sun Life Insurance Company after said company failed to secure the contract for the Senior Endowment Plan. Had Baumrucker been found guilty he would have been liable to a \$500 fine. The only result to date is that the Sun Life Insurance Company has proved themselves to be poor sports and the committee is still selling policies of the Massachusetts Mutual Life Insurance Company.

DISCUSSION HELD BY LACROSSE FANS

Enthusiasts Hear Discussion
of Growing Popularity
of the Sport

Thirty Lacrosse enthusiasts gathered in Room 3-270 last Wednesday afternoon as a first step toward the organization of a team at the Institute. Dr. Allen W. Rowe '01, secretary of the Advisory Council on Athletics, and Charles E. Marsters, trustee of the Intercollegiate Lacrosse Association, and president of the Boston Lacrosse Club were the speakers.

Dr. Rowe explained the ever spreading popularity of this sport in universities and colleges all over the country. The game is gaining more and more on collegiate baseball, and stands a good chance of supplanting it. The establishment of this sport at M.I.T. offers another athletic activity to students who have had some previous experience and also to those who desire a lively competitive contest although not acquainted with this branch of athletics before.

Mr. Marsters told of the particular interest shown by various New England colleges. Yale, Harvard, Dartmouth, Brown, Williams, and Springfield all have Lacrosse teams. Boston University is also planning to adopt it. As president of the Boston Lacrosse Club, he offered to provide a coach for the coming season, and to give all kind of suggestions to the team.

William W. Olmstead '29 and Addis E. Kocher '30 were elected representatives of the team to refer the matter to the Advisory Council on Athletics, and to arrange for the workouts of the candidates. The first practice will be tomorrow afternoon at two o'clock. The field to be used is the same as that of the Soccer Team. Arrangement will be made whereby each team will use it on alternate days.

M.I.T.A.A. OFFICERS NOMINATED FOR 1930

Name MacLauren, Alexander, and
Hawkins for Presidency

Nominations of officers for the M. I. T. A. A. to serve for the coming year were made at a meeting held yesterday. Edgar M. Hawkins '30, Frederick C. Alexander '31, Thomas F. MacLauren '30, were named for president and John M. Hanley '30, and Theodore B. Spruill '30 for vice president.

In addition to the men nominated for vice president, the defeated candidates for president automatically become candidates for vice president. No specific men were named for secretary, as the men who are defeated for vice president are the nominees for secretary. Elections will be held in the North Hall of Walker Memorial on Tuesday, March 26 at five o'clock.

CLUBS WILL GIVE POP CONCERT IN WALKER TONIGHT

Program Includes Many Popular
Selections With Also a
Specialty Act

MUSIC BY TECHTONIANS

Two and one half hours of dancing preceded by the full program of the Combined Musical Clubs will comprise the annual Pop Concert and Dance of the Clubs which will be held at Walker Memorial tonight beginning at 8:30 o'clock.

For the program each of the Banjo, Glee, and Instrumental clubs will put on acts which will be interspersed by a specialty act and dance selections. The specialty number, whose nature has not yet been divulged, will consist of an entirely new number given in an inimical manner by Warren H. Martel, '30.

Immediately after the rendition of the "Stein Song" by the audience and Combined Clubs, marking the traditional ending of the concert, the Main Hall of Walker will be cleared of chairs in preparation for the dancing to the music of the Techtionians.

Tables will be placed along both sides of the hall underneath the colonnades and in the balcony overlooking the main floor. These may be reserved by groups of six or larger. Walker Dining Service will be open during the dance period and will sell ice cream and cake, coffee and bottles of pop very reasonably.

Tickets for the concert and dance may be obtained in the main lobby today or at the door tonight. The chaperones have been announced as Mrs. Robert P. Bigelow and Mrs. James R. Jack.

The program is as follows:

Nails	Luigini
American Patrol	Delibes
	Meacham
Instrumental Club	
Promis' Land	Burleigh
Songs My Mother Taught Me	Dvorjak
John Peel	Andrews
If I had you	Glee Club
Ida	
Somebody Stole My Gal	Banjo Club
Specialty Act	Violin Solo
Warren Martel, '30	
Popular Selections	
Techtonians	
Take Me Back to Tech	Littlefield, '85
The Stein Song	Bullard, '87

New Developments in Television Are Being Made in Technology Laboratory

Design of Improved Amplifier
for Receiving Apparatus
Chief Problem

(This is the second of a series of features articles describing the work progressing in the many interesting laboratories and experiment stations in the Institute. Watch for more of these—learn to know Technology.)

Television is the latest development in the field of electrical communication. Announced but a few years ago, it is still in the experimental stage, no attempt having yet been made to make it commercially practical. But experiment and development is being carried on intensively, and it is not at all improbable that commercial television receivers may soon be on the market.

At the present time there are half a dozen large stations in the United States broadcasting experimental television programs. All the large electrical manufacturing companies have stations either in operation or under construction. Among those within range of Boston is the station in Lexington, Massachusetts, operating under the experimental license W1XAY on a wavelength of 62 meters. This station is one of the pioneer television stations of the country. It has recently been granted a new license to use 5000 watts on the new-

CAPACITY AUDIENCE HEARS GIPSY SMITH, FAMOUS REVIVALIST

GLIDER WILL BE
TESTED ON CAPE

Aeronautical Society to Make
Trial of Craft During
Vacation Week

Work on the glider by members of the Aeronautical Engineering Society is nearing completion so that a tentative date has been set for flying it on Cape Cod during the vacation from April 17 to 21. If the construction schedule now in force is maintained, the glider will be ready to fly on April 18. Material has been ordered for the new steel tube nose and the stress analysis made. The ailerons and tail will be finished April 1.

A test flight will be made over the week end of April 13. At this time the glider will be towed behind an automobile in order to check its stability and controls. The first test pilot will in all probability be Benjamin S. Kelsey, instructor of aeronautical engineering, who flew the glider last year when she made a 400 foot free flight.

Members of the experimental committee will make a trip to the Cape soon equipped with anemometers in order to ascertain what section has the highest wind velocities. It is expected that some one who has a summer house on Cape Cod will offer it to the society until the experiments are over. This will reduce the expense of the expedition considerably as the students must bear all the expenses.

The glider is registered at the Department of Commerce where it has been assigned the number 409. A trailer is under construction to be used in transporting the glider from the Institute to the Cape. This will be built from two stripped down Ford chassis.

The span is 44 feet and the length is 23 feet over all. The machine weighs 250 pounds when unloaded and carries in flight an additional load of 185 pounds. There is about 220 feet of wing area. It has a rib strength of over 2 tons distributed load. On Armistice Day, the glider was flown at Wellfleet on Cape Cod. On this occasion it made a free flight of over 400 feet.

T.C.A. COMMITTEE SECURES ELOQUENT GIPSY REVIVALIST

Internationally Known Preacher
is Introduced by Prof.
James L. Tryon

PIANIST OPENS MEETING

"I've always liked weak things," said Gipsy Smith, referring to the women he saw in the capacity audience which greeted him in Room 10-250 yesterday afternoon. The world famous evangelist was brought to the Institute by the T. C. A. and made an appeal to the students, faculty, and others who came to hear him to secure and cherish the influence of God in their lives.

Gipsy Smith's pianist opened the meeting by playing "Old Black Joe" which he ended by reproducing in chime chords. Professor James L. Tryon, introduced the revivalist, and said that "engineers, like other men need from time to time to have their sense of honor quickened and their ethical ideas lifted high before them." He asked the eloquent evangelist to speak in his own way the message which was on his heart.

Born in Gipsy Tent
Proud of his gypsy heritage and desiring to remove all prejudice against "the nation without a country," Gipsy Smith first explained the trials and tribulations caused by his lack of opportunity and education, but then related how he learned to love God through his study of the Bible. He started serving the public by his revival talks 52 years ago when he was hardly able to read or write and since then has enjoyed enlightening others all over the world in the ways of spiritual devotion.

When he asked if he might pray with the audience, he received an affirmative answer and wished everyone to be in harmony with God and to make this a moral anchor amidst all the knowledge, abilities, and opportunities of worldly life. Following his prayer he sang a psalm to the accompaniment of his pianist and a tremendous ovation burst forth at his conclusion.

Boston is Hub of Universe
Boston was referred to as the Hub of the Universe by the speaker whose interspersed humor cheers his audiences. He stated that one is unlimited mentally and morally when he rejects the attitude of an agnostic and
(Continued on Page 4)

POSTER CONTEST WON BY OSWALD V. KARAS

Oswald V. Karas '29, won the first prize in the competition for the poster for Open House Night. Second prize was awarded to George M. Houston '30, was awarded second prize. The judges of the posters were Professors Emerson and Gardner and the General Open House Committee. Louise Hall '30, Frederick M. Moss '32, James M. Pickell '30, Oliver K. Noji G, Joseph Goodwin '30, Walford Walden '30, and Wesley W. Wedemeyer '30 received honorable mention. The Committee is planning to exhibit the nine posters which received honorable mention at Open House, Saturday, April 27.

Many Marvel as Music Makes Meal More Merry

Many of those poor souls who are doomed forever to eat their evening meals in Walker had a ray of sunshine injected into their dreary lives when last Wednesday evening they were privileged to listen to a rehearsal of the Techtionians held on the balcony surrounding the Hall. It lasted but a short time, and it was only a rehearsal anyway, but it did much to temporarily lift the listeners above the drab level of their surroundings.

A Record of
Continuous
News Service
for 48 years.



Official News
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Undergraduates
of M. I. T.

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The Open Forum

(Editor's Note: The following communication is typical of those which have come to our notice this week. In the editorial an attempt to explain the situation has been made, although as is pointed out in that column, there is "Nothing to Worry About.")

To the Editor of THE TECH:

There often comes a time in the career of every normal person, when those in authority somewhat cross his will. It would appear from Mr. Brimberg's letter in THE TECH of Monday last that this thing has just happened in the case of the Administration and the Liberal Club. Unfortunately, this is not the first time that friction has occurred over this same topic and to many students it seems an appropriate opportunity for the administration to enlighten the student body on the whole situation.

According to the aforementioned letter, we are banned from the discussion of religion, politics and militarism. I cannot help wonder what the authorities think about birth control. My suspicions are aroused concerning the religious ban because on last Tuesday at seven o'clock in 5-330 there was a discussion on Christian Science; because on last Thursday at four o'clock in 10-250 the Reverend Clarence Skinner spoke on Science and Religion; because my eyes have just rested upon a sign advertising Gipsy Smith in 10-250 under the auspices of the T. C. A. Moreover, I can remember attending several political discussions held by the A. I. Smith and Republican Clubs. Even further than this, I can distinctly remember attending a lecture given by the dangerous radical Mary Hapgood—which lecture probably did more than any-

thing I know of to turn my sympathies away from radicalism. Curiosity is always aroused when authority becomes sensitive and it is generally known that discussions of military training have been banned in the past. There are rumors that a certain member of the faculty considers himself guardian of the Military Science Department with the sole purpose of warding off any dangerous attacks on the part of the students or the instructing staff. He is even known to have said that the meeting was called off because he was either asked or not asked to speak—I can't quite make out which. In the name of Article I of the Amendments to the Constitution of the United States, what is all the mystery about? I am not a

member of the Liberal Club. Have I the right to know?

Sincerely yours,
Howard A. Robinson '30

An instructor at Georgia Tech states that he always gives better marks to those who wear snowy white starch shirts and good looking ties.

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Strawberry Shortcake
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NOTHING TO WORRY ABOUT

NO, we are not digressing to the old Puritan days, when one who said what he believed was given a ducking. Nor are we in danger of arrest for treason, even if we talk against the existing order of things. No one has suggested an infringement on the proudly flouted right to all citizens of the United States of "Freedom of Speech". Just what is all the fuss about anyway?

We printed (all in good faith) on last Monday a letter from the president of the Liberal Club, giving his views on the treatment his club had received. The gentleman in question told of his attempt to secure from the registrar permission to use one of the lecture rooms in the Institute for the purpose of a debate on "Military Preparedness". By the registrar he was referred to President Stratton, who gave him to believe, according to his communication, that the Administration sought to impose a censorship on student thought and discussion.

"Ah, a sinister implication there", thought those not used to thinking. A considerable stir was raised—all about nothing. All because some sound advice, confidentially given, to us young men who should respect age, wisdom and experience, was twisted and misconstrued.

Many students feel that the Liberal Club has taken issue on the subject of "Free Speech". Yet there is no issue. There are no instances in the history of the Institute when any recognized Technology organization has been denied the request to sponsor a discussion, speech or debate by or between any persons on whatever subject. To show how far the administration's tolerance in this matter has extended, it is only necessary to point out that Mary Hapgood, a notorious radical, ardently opposed to existing law and order during the Sacco-Vanzetti case, was admitted to the Institute and allowed to speak at a meeting here. It must be clearly understood that the authorities realize the fallacy of attempting to restrict speech or discussion at Technology.

People like to talk and write—this occasion has given them opportunity to do so. Passive resistance to the question on the part of the Liberal Club is commendable, but it did not prevent students from turning into "soap-box orators" and proclaiming a usurpation of our inherent rights. Our freedom was never for a moment threatened, as a matter of fact. These verbose "liberalists" are unquestionably sincere, yet some of the student sentiment might better be confined to Boston Common, or taken over to agitate Hyde Park audiences.

On another related subject has there been much active discussion. An advertisement appeared in Wednesday's issue of THE TECH, announcing Tucker P. Smith's speech on the R. O. T. C. to be given in the Riverbank Court Hotel. While a note in the "ad" subtly implied that the Liberal Club had but gone across the street with its troubles, officers of the organization assure the student body that "The Liberal Club, either officially or unofficially, had nothing to do with securing this speaker and arranging for this meeting."

SKEPTICS

WELL, the intelligentsia has heard Gypsy Smith, heard him in their own technical lecture room with its peculiar meters on the walls. And not a tear was shed, visibly, except for those of Gypsy himself—visibly, we say. And not a soul, except for the T. C. A. cabinet and certain of the Faculty, would ever admit that he had made even the slightest impression upon him. Yes, yes, the intelligentsia thinks for itself; no sudden emotional stress can produce the smallest change in the stoic mind of an engineer.

Last year we heard Darrow, and scoffed for all his mental prestige; now we have heard the other side. Scoff? Hardly; the man was too sincere. Believe? Well, that's different; we're engineers; we're mature; we see life from an elevated point of view; could we admit that an evangelist of the masses—for all his sincerity and goodness—had changed our course of living?

Yes, we went from half-filled 5-330, where a noted scientist from Germany kept his audience eager for more, fully an hour over his scheduled period, to 10-250 packed with freshmen, Sophomores, a goodly number of upper classmen, and secretaries from the President's to the Lounger's. We heard a genuine, heart-to-heart talk for technical boys, a piano and a vocal solo, a Faculty talk on God and the Engineer. Were we affected? Will we admit it? See you at Tremont Temple.

JUST PLAIN LOVE OF THE GAME



TWENTY-FIVE THOUSAND
STONE & WEBSTER MEN KNOW THAT
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again. There was trouble to spare that night—everyone knew where to find it, and went out to get their share. Swearing? Sure—Mad? Clean through—who but a moron or fool giggles at a blizzard—but happy? Every last one of them, and fighting with all they had."

—A Manager's Report

Stone & Webster men are recognized for the part they play not only on the job but in the community. Wherever there is a Stone & Webster company, there you'll find a group of men, bound together by a common fellowship, taking an active part in local affairs; working for civic betterment, helping to develop local industries. The Stone & Webster training fits its men for public service.

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M. I. T. ENTERS GYM LEAGUE

PAST INDOOR TRACK SEASON IS VERY SUCCESSFUL

Many New Records Stand As Track Squad Closes Brilliant Winter Season

By Charles Chapman

All the indoor track season this year has been a huge success. One National Junior Championship has been won, and two Varsity, five freshman, and five interclass meet records have been broken, all this being done in the short season of eight meets. Technology track men have conducted themselves very satisfactorily, both in extramural and intermural competition, and have done much to enhance the athletic prestige of the Institute.

On January 26 the Varsity Relay team competed in their first meet of the indoor season when they took part in the Eighth Annual Prout Memorial games, held at the Boston Arena under the auspices of the Knights of Columbus. In this meet they won from their old opponents, the University of Maine in the 1/4 mile handicap, M. S. Herbert '30, with a handicap of 28 yards, crossing the finish line first.

Good Races in B. A. A. Games
The next competition for the team was in the B. A. A. games, held in the Boston Garden on February 2. In this meet the relay team lost to Harvard after a hard fight. Philip Benjamin '31 tied for first place in the high jump at six feet with three other men.

One week later, February 9, the relay team journeyed to New York to take part in the annual Millrose games. Here they lost a fast race to Colgate University by a scant yard.

The next week, February 16, in-

dividual members of the team competed in the N. E. A. A. U. meet, held in Mechanics building. Although none of the men placed in the finals, Wayne and Hallahan showed up quite well and gave the best exhibition for Technology.

Baltzer Is Champion

On the following Friday, February 22, the men competed in the N. J. A. A. U. meet at the Boston Garden and made a much better showing than they made the previous Saturday. Dick Baltzer '31 won the 1000 yd. run and the National Junior Indoor Championship in this event for 1929. Elmer placed third in the pole vault while George Cohen took third in the standing high jump. In this meet Philip Benjamin again tied for first place in the high jump at six feet with three other men. In the jump-off he lost and took fourth place.

Records Fall in Handicaps

On the next afternoon, February 23, a handicap meet was held on the Institute board track in which four records were broken. For the freshmen, Ralph Wayne set a record of 43-5 seconds in the 40 yd. dash while Don Gilman lowered the mark for the 1000 yd. run to 2:28. Fred Ladd set a new Varsity record of 34:1-5 seconds in the 300 yard run while Leon Thorsen set a new record of 6:07 in the 1-1/4 mile run.

Following this the freshmen met and defeated Huntington School by the score of 36 to 27 on the next Wednesday, February 27. In this meet two more freshman records were lowered. In the 300 yard run, Hall set a new mark of 34:4-5 seconds while Jewett lowered the time for the 600 yard run to 1:18:4-5.

1931 Wins Interclass Meet

The season closed on the following Saturday, March 2, with the annual interclass meet. The Sophomores won the meet with 63 points, the Juniors were second with 47, the freshmen third with 40, and the Seniors last with 13. In this meet four interclass meet records and one track record were broken. In the 300 yd. run, Freddie Ladd, set a new interclass and track record when he ran the distance in 34 seconds flat. Captain Hallahan set a new interclass mark of 1:15:4-5 in the 600 yard run while Leon Thorsen did the same in the 1-1/2 mile run by making the distance in 7:25:1-5. In the shot put, Grondal set a new interclass record by putting the iron ball 40' 11".

More Records Fall

In the same meet Donald Gilman set a new freshman record for the mile run when he won that event in 4:42:3-5. In the 50 yard dash, although there was no previous time on record, Wayne's time of six seconds flat set an interclass mark for the distance.

In a post season race on March 12, Dick Baltzer lowered the mark set by Thorsen in the interclass meet for the 1-1/4 mile run. Baltzer did the distance in 5:57:2-5.

Prospects Good For Spring

Reviewing the season just completed on the board tracks, brings to one's mind the possibilities that the coming spring season offers. With such a showing made on the more difficult winter tracks, what cannot the men do when they get out in the open? The extramural spring season will open on April 26, when the Varsity relay team journeys to Philadelphia to take part in the Penn Relays. If their showings during the indoor season are anything to judge by, they should have more than an equal chance of winning. On April 16 the first interclass meet of the spring session will be held and will open the intramural spring session at Technology.

GYMNASTS ENTER IN E. I. G. L. MEET AT PHILADELPHIA

Wells is Entered in All Around Competition—Reynolds is Big Threat

M.I.T. IS HIGH IN LEAGUE

Dolloff is Entered in Tumbling Against Zey and Stuart, Dartmouth Stars

Tomorrow afternoon the Beaver Gymnasts will compete in the Eastern Intercollegiate Gymnastic League championships at Philadelphia. Five men are to make the trip including Captain Fairchild, Moore, Wells, Reynolds and Dolloff. These men have an even chance of carrying off the honors in the meet for Technology and avenging the defeat they received at the hands of the Navy last Saturday.

Fairchild in Two Events

Captain Fairchild is entered in the side horse and the rope climb. On the side horse he looks to be among the best of those entered and should have a good chance of taking first place. In the rope climb he has to compete against the outstanding star of the Navy, Galbraith, and from Galbraith's previous performances, he should have no trouble in overcoming the Technology star.

Moore is also entered in the side horse. He has done good work all season and should be able to take second place in this event if the first place is expected to be taken by his team mate, Fairchild.

Wells in All-Around

Wells is entered in the All-Around competition. This means that he is entered in every event but the rope climb and has a good chance of winning the high bar, the rings, and the parallel bars. His greatest opponent in the last two named is his team mate Reynolds who stands an equal chance to win in these events with Wells. He is also entered in the rope climb with Fairchild and should stand next to his Captain in the scoring in this event.

Dolloff is the other Engineer entered in the tumbling with Wells and stands a good chance of winning this event. His main competitors will be Zey of Dartmouth and Stuart, also of Dartmouth. All three men are equally good, and a keen competition should result.

FRESHMAN SWIMMERS LOSE TO BROOKLINE

Technology's freshman swimming team terminated the season by losing to Brookline High yesterday at the Brookline Municipal pool. Ford of Brookline was the high scorer of the afternoon, taking first in the fifty and two hundred yard free style, and swimming anchorman on the relay.

Brookline took all but one first, although the yearlings put up an excellent fight in most of the events. Rinehimer scored the only first for the Engineers when he rushed to an early lead which Smith of Brookline was unable to overcome. Rinehimer also put up an excellent fight in the fifty yard free style and as anchorman on the relay team.

Levinson who has gone through the entire season with an almost unmarred record was defeated in the backstroke by Williamson when he slipped on the first turn and lost his

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Fencing Captain Will Enter 1929 Intercollegiates

Joseph Levis, Olympic Duellist, Addresses Fencing Rally on Tuesday

By defeating the fencers from Harvard, Yale, and Dartmouth, Captain Harriss of the Varsity fencing team qualified for the Intercollegiate to be held next week at New Haven. Harriss won over his opponents both in the foils and sabres, and is one of the outstanding contestants for the championship. He has done very consistent work with these two weapons, and as captain and star of the team has done much for the sport in Technology.

At a rally held last Tuesday afternoon, Joseph Levis, a member of the 1926 fencing team, now an Olympic fencer, and holder of national three-weapon Championship, gave a talk on the improvement of the sport at M. I. T. He outlined plans for future equipment, a "Salle d'Armes," uniforms for the team, publicity, and a coach. His plans received much applause from members of the team who hope to see fencing one of the major sports of the Institute.

Exhibition is Planned

As a first step in increasing the popularity of the sport, an exhibition was planned for May 3, the place to be announced later. At this exhibition, fencers of national reputation will duel with the foils and sabres. Among the famous duellists who will be present are Lieutenant Callahan, an M. I. T. graduate, fencing coach at the Naval Academy, and third place winner in the Olympics. He was the first contestant of the American Olympic team to place against the famous swordsmen of Europe. Joseph Levis, also of M. I. T., will give an exhibition with foils and sabres.

CREWS PRACTICE FOR APPROACHING RACE

For the past week, three heavy and two 150 pound crews have been rowing on the river in preparation for their first race with Navy on April 28. The Middies have been on the water for several weeks, which gives them a decided advantage over the Cardinal and Gray oarsmen. To counter-balance this handicap, Coach Haines has started intensive training in hope of beating the Navy, who won by half a length last year.

The freshman coaches, in the absence of Coach Manning, are Ben Kelsey and Bill Erickson, who now have three yearling boats practicing daily. Cook, the stroke of the yearlings, is recovering from a bad cold, Edgar Schulerberg taking this position in his absence. Due to the termination of the wrestling and boxing seasons, the yearling squad has grown immensely, and the new freshmen are working out in the barge. The yearlings crew is one of the fastest in years in spite of its light weight, and looks very promising for the coming races.

lead. Although he battled valiantly for the remaining distance, he was unable to recover the lost yardage.

MASS MEETING FOR TRACK TO BE HELD THIS AFTERNOON

Coaches Hedlund and Meanix to Address Gathering on Track Sports

GOOD TURNOUT URGED

This afternoon at five o'clock, a mass meeting will be held in the Hangar Gym to promote interest in spring track. The meeting comes at the start of the spring session and will be featured by talks by various members of the coaching and managerial staffs. All members of the track team, both Varsity and freshman, are requested to be present.

Coach Hedlund will give a talk to the candidates on the track sport. Those who have read the recent articles appearing in THE TECH by Oscar Hedlund realize the convincing way in which he can put across his ideas. Following this, Coach Bill Meanix will discourse on the field events to give the men who will come out for these events an idea of what they are. Manager Alexander will then talk to the candidates and give them a combined story of track as a whole and the managerial side of it.

All candidates are requested to be present at the meeting with the older track team members so that they may get into the sport right at the start. Track is a major sport at Technology and the meeting should be well attended in order to start the season properly.

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of New York, Executive Secretary of the National Committee on Militarism in Education, formerly of the Y. M. C. A.,

WILL ADDRESS A MEETING ON

The R.O.T.C.—Is It a Menace?

TUESDAY AFTERNOON, MARCH 26

at four o'clock

THE RIVERBANK COURT HOTEL

(Opposite Mass. Ave. entrance to M. I. T.)

Be There, to Support Whichever Side of

the Question you Prefer,

and to Express Your Opinion on Compulsory

Military Training in Colleges

Due to the impracticability of securing a room in the Institute buildings, this meeting will be held in the Gray Room, 2nd floor of the Riverbank Court Hotel, on Mass. Ave., just opposite Mass. Ave., entrance to M. I. T.

This meeting announced under the auspices of the fellowship of Youth for Peace.

Free Trial "Sells" Man This Smoke

Chicago, Illinois,
July 12, 1928

Larus & Bro. Co.,
Richmond, Va.
Gentlemen:

Replying to your circular letter of June 29, be informed that your sample packages were received. With them I received the pamphlet describing your product, which I was able to enjoy reading because there was not in the circular matter the usual distasteful sales talk which makes the recipient of a sample package feel obligated or uncomfortable.

I believe your practice of giving your prospect a sample and then letting him make up his own mind will gain you many more customers than will the usual modern sales practice of pushing the product down the prospect's throat. As a matter of fact, since receiving your sample and your advertising matter I smoked up the sample package and have since purchased a number of cans from neighborhood dealers, all of whom carry this tobacco in a city of this size.

I have found Edgeworth to be a satisfactory blend at a very reasonable price, and although my past acquaintance is brief, I look forward to a long membership in the Edgeworth Club.

Yours very truly,
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Edgeworth
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TRACK MASS MEETING IN HANGAR AT 5!

NOTICES and ANNOUNCEMENTS

Of General Interest

The Helium Spectrum Prof. W. Heisenberg
Friday, March 22, 4 P.M., Room 10-250

Professor W. Heisenberg, Director of the Institute of Theoretical Physics of the University of Leipzig, will give the fourth lecture in the series on "Recent Developments in Quantum Mechanics". The subject of the lecture will be "The Helium Spectrum".

The lecture is open to students and members of the instructing staff.

Hydraulic Experimentation Dr. Ing. Theodor Rehbock
Friday, March 22, 2 P.M., Room 5-330

Dr. Ing. Theodor Rehbock, Professor of Hydraulics at the Technische Hochschule of Karlsruhe, Germany, will deliver a series of lectures on "Hydraulic Experimentation". The second lecture will be on "Water Movement: Lamina Turbulent and Shooting Flow" and "Water Currents and Hydraulic Rollers". The lectures will be illustrated by moving and still pictures.

The lecture is open to students and members of the instructing staff.

Evolution Prof. Kirtley F. Mather
Saturday, March 23, 9 and 12 o'clock, Room 5-330

Professor Kirtley F. Mather of Harvard will speak on "Evolution" at the lecture hour in English and History E22.

The lecture is open to students and members of the instructing staff.

Meetings of Eastern College Personnel Officers
Friday, March 22 and Saturday, March 23

Group Discussion Meetings on Personnel Problems. Full information regarding topics, time and place of meetings may be had at the Personnel Office or the Undergraduate Employment Bureau.

The meetings are open to students and members of the instructing staff who are interested.

Poetry Reading Professor M. R. Copithorne
Monday, March 24, 5 P.M., Walker Library

Professor M. R. Copithorne of the English Department will present the last of his series of poetry readings. Selections from the works of John Masefield will be the subject.

Students and members of the instructing staff are invited to attend.

Calendar

Friday, March 22

- 3:00—A. I. E. E. Open Discussion Meeting, Room 10-275.
- 4:00—Fourth Lecture on Quantum Theory by Professor Werner Heisenberg, Room 10-250.
- 5:00—Freshman Rules Committee Meeting, West Lounge, Walker, Saturday, March 23.

Saturday, March 23

- 2:00—Lacrosse Team practice, Tech Field.
- Rifle meet, Varsity vs. Navy at Annapolis.
- Eastern Intercollegiate Gym League Championship Meet, at University of Pennsylvania.

Monday, March 25

- 5:00—M. I. T. A. A. Meeting, Committee Room, Walker.
- 6:00—Alumni Council Dinner Meeting, Faculty Dining Room, Walker.

Tuesday, March 26

- 5:00—Banjo Club Meeting, East Lounge, Walker.
- 5:00—Glee Club Meeting, Room 10-250.

Wednesday, March 27

- 7:00—Chemical Society Smoker, North Hall, Walker.

Thursday, March 28

- 5:00—Banjo Club Meeting, East Lounge, Walker.
- 6:00—Italian Club Smoker, Faculty Dining Room, Walker.
- 7:30—VI-A Smoker, North Hall, Walker.

Saturday, March 30

- 5:00—Banjo Club Meeting, East Lounge, Walker.

Monday, April 1

- 5:00—M. I. T. A. A. Meeting, Committee Room, Walker.

Tuesday, April 2

- 5:00—Banjo Club Meeting, East Lounge, Walker.
- 5:00—Glee Club Meeting, Room 10-250.

Wednesday, April 3

- 7:30—Chemical Society Smoker, North Hall, Walker.

Friday, April 5

- 9:00—Freshman Promenade, Hotel Somerset.
- 8:30—Dorm Dance, Walker.

Undergraduate

SENIOR ENDOWMENT

Information on the Senior Endowment plan can be secured in Room 3-213 at any time.

SENIOR WEEK COMMITTEE

There will be a meeting of the Executive Committee of the Senior Week Committee in the Executive Committee Office 5 o'clock today.

SENIORS

A representative of the General Railway Signal Company of Rochester, N. Y. will be at the Institute today to interview Seniors who are interested in electrical signal work. Candidates should schedule an appointment in the Personnel Office, Room 3-212.

H. M. LANE DOES TELEVISION WORK

Extreme Frequencies Present
Many Difficulties in
Operation

(Continued from Page 1)

mission the unsolved problems relate to specific parts of the apparatus which give unsatisfactory performance. Synchronizing and monitoring of the scanning disk is still imperfect. High amplification with no distortion has not been satisfactorily accomplished. Much refinement and "fool-proofing" is necessary.

Some of these problems are being investigated at the Institute by Mr. Henry M. Lane, instructor in electrical engineering. The greater part of the experiments have been in reference to the development of high-gain amplifiers of uniform amplification characteristics. This is difficult because of the wide range of frequencies that must be used in television transmission and the disastrous effect of the slightest distortion of the incoming signal.

M.I.T. Television Research

A complete transmitting and receiving apparatus has been built by Mr. Lane. The output of the transmitter is coupled directly to the receiver to eliminate as far as possible all variations from other sources while studying the amplifier. The set-up is so arranged that the experimenter serves as the subject being televised while viewing the received image.

Much experimenting was necessary in constructing the outfit in order to secure a stable transmitter and power supply. Since this has been completed research is now almost entirely confined to the development of amplifiers. Several have been designed, the one under investigation at present consisting of four stages of resistance coupled high mu tubes and two stages low mu, giving an amplification of one million times. Plans are being completed for a circuit utilizing the Western Electric tubes used in Vitaphone installations. Measurement and comparison of the various amplifiers is accomplished by observation of the received image and by electrical computations.

CARNIVAL COMMITTEE CONSIDERS PROTEST

At a meeting of the Carnival Committee last evening in Walker Memorial a formal protest was entered in the form of a letter written to the Committee by T. E. N. claiming that this former organization and not THE TECH, should be allowed to operate a bar individually at the coming Carnival, for the following reasons: first, that in past years T. E. N. has run the bar in connection with THE TECH, secondly that the bar was originally the idea of the T. E. N. management, and thirdly that in previous years, when the bar had been managed mainly by THE TECH the bar had not been satisfactorily conducted. The Carnival Committee has taken this matter under advisement, and will decide the point at a meeting next Friday evening.

THETA CHI BOWLERS WIN CHAMPIONSHIP

In a match for the interfraternity bowling championship held last Wednesday night at the Fenway Alleys, between two four men teams representing Theta Chi Fraternity and Phi Mu Delta, Theta Chi came out on top, outscoring their opponents by three to one. After taking the first string, Phi Mu Delta was decisively beaten in the second and barely lost the third, the total being 1084 to 987 in favor of Theta Chi.

UNDERGRADUATE

All lacrosse candidates should obtain lockers in the Track House or Hangar Gym and report for practice at Tech Field tomorrow at 2 o'clock.

SENIORS

A representative of the Nash Motor Company of Milwaukee will be at the Institute this afternoon to interview Seniors. Students who are interested should schedule an appointment in the Personnel Office, Room 3-212.

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New Voo Doo Clothed in Virgin Innocence

With the idea of giving the students of the Institute something novel, Phosphorous has announced that the "Purity Number" of Voo Doo will be on sale Monday. The Voo Doo Summer Camp Guide, the suggestion of a sorority for the co-eds of Technology, a take-off on Philo Vance and the great mysteries which he is called upon to solve, a full page cartoon of life in the big shops where graduates of the Institute often find themselves, some jokes of a tone somewhat different than have been appearing in this magazine, and the usual number of age old puns constitute this issue.

GLEE CLUB PRESENTS CONCERT NEXT WEEK

With the rehearsal held yesterday afternoon at Jordan Hall, the Technology Glee Club practically completed its preparations for the concert to be given in combination with the McDowell Club at Jordan Hall next Wednesday afternoon. The concert will be under the direction of Mr. William Ellis Weston, coach of the Glee Club and of the McDowell Club.

An extra rehearsal of the Technology Club will be held Monday afternoon in Room 2-190 at five o'clock. Tickets for the concert have been given to each member of the Clubs, and although there are none for sale, seats may be secured at three o'clock on Wednesday when the concert is to be given.

Among the numbers which the Glee Club will render with the McDowell Club are, Eranc's 150th Psalm, Von Holst's Psalm XCIII and Jerusalem. They will also sing Ave Verum by Mozart, the number the Club sang in the Intercollegiate contest.

FRESHMEN TO HOLD DANCE AT SOMERSET

Arrangements for the Freshman Promenade, the chief social event of the year for the class of 1932, have been made by the freshman dance committee. The dance will take place at Hotel Somerset on the evening of Friday, April 5, featuring Leo Reisman's Orchestra.

In order to prevent "crashing" at the dance, the Newbury St. entrance of the hotel has been reserved by the dance committee for exclusive use during the evening by patrons of the affair. The tickets will be sold at \$2.50 per couple or stag, and will be available beginning next Monday either in the main lobby and at the Rogers Building, or from any freshman officer or member of the dance committee.

Freshmen who are unable to obtain partners for the dance will be accommodated, upon request, by the committee in charge. In the words of one of the committeemen, "It is expected that the freshman class, the only one in twelve years to capture Field Day, will continue to show its preeminence by making its largest social affair an unusual success through hearty patronage".

S.A.E. WILL HEAR MR. JOHN F. DUBY

Mr. John F. Duby, of the J. F. Duby Co., manufacturers of wheel-aligning instruments, has consented to speak before the Society of Automotive Engineers on the ever-present and perplexing question of wheel alignment on automobiles. The address will be given in Room 3-270 at three o'clock this afternoon. He will explain the geometry of steering problems and what the effect of the necessary compromises are, caster, camber, and toe-in will be discussed with relation to their shimmying. After the address Mr. Duby will answer any questions the students may have in regard to the subject.

GREAT REVIVALIST THRILLS AUDIENCE

(Continued from Page 1)

assumes devotion toward God. The speaker admitted that if he couldn't pray he would go wrong in ten minutes.

One of his many illustrations of the influence of his talks on people was the example of a student at Cambridge, England who had his wall covered with pictures and drawings that "his mother shouldn't see." A friend of this fellow put a crucifix on the wall and by the influence of the friend's contribution the wall was soon cleared of its abhorrence.

"He is not a man who sneers at another" was the opinion of the speaker when he tried to convince the audience that under no condition should one ever try to rob another of his purity. In regard to this policy the speaker gave examples of men with whom he had come in contact who had misled others and repented it on their death bed.

Maternal love and its influence on boys who are or have gone wrong was revived many times by the influence of the speaker. He encouraged those who are away from home to write more often and cheer their mothers by fond devotion.

The T. C. A. secured the speaker after being once refused, due to his avalanche of invitations to speak at various places. The T. C. A. committee then exerted their efforts toward showing him that his visit here would be well received. The crowd in Room 10-250 proved the fact and showed how the speaker could draw immense crowds wherever he went.

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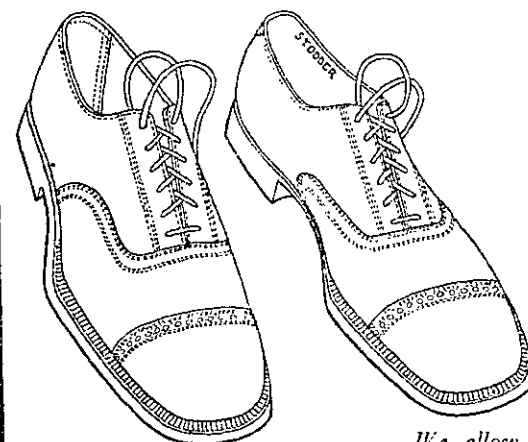
NOTICE TO Seniors and Graduate Students OF ALL COURSES

Appointments for Interviews with

Bell System Representatives

May be made March 20 to 23 inclusive
in Room 3-209

NEW SHOES for SPRING



We have taken our most popular and outstanding young man's \$11.00 oxford of the past season as a model and have turned out a beautiful light weight shoe for spring which is pre-eminent smart and high grade.

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